



UNITED STATES PATENT AND TRADEMARK OFFICE

8/16  
JLK  
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Applicant: Mostafa S. Fahim

Serial No.: 07/303,747

Filed: January 30, 1989

March 8, 1991

Group Art Unit 125

For: Method of Inhibiting Generation,  
Maturation, Motility and Viability  
of Sperm with Minerals in  
Bioavailable Form

Examiner: Raymond J. Henley III

Amendment A

Commissioner of Patents and Trademarks  
Washington, D. C. 20231

Sir:

In response to the Office action of December 4, 1990,  
please amend the above-identified application as follows:

IN THE TITLE:

Please delete "AND COMPOSITIONS USEFUL THEREFOR."

IN THE CLAIMS:

Please cancel claims 1 - 29 and add the following new  
claims.

1  
20. A method of inhibiting generation, maturation,  
motility or viability of sperm in a reproductive tract of an  
animal comprising applying in said reproductive tract an  
aqueous solution of a mineral gluconate salt and an amino acid  
capable of forming the solution, said aqueous solution  
neutralized to a pH in the range of 6.0 to 7.5 and applied in  
an amount effective to inhibit generation, maturation, motility  
or viability of sperm in the reproductive tract and said  
mineral gluconate salt and said amino acid being present in  
substantially equal molar amounts at a concentration in the  
range from about 0.05M to about 2.0M.

2  
31. The method of claim 20 wherein the concentration  
of the mineral gluconate salt and the amino acid is from about  
0.05M to about 0.3M.